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## faith, hope and parity



### an anthology of selected humor from Datamation magazine

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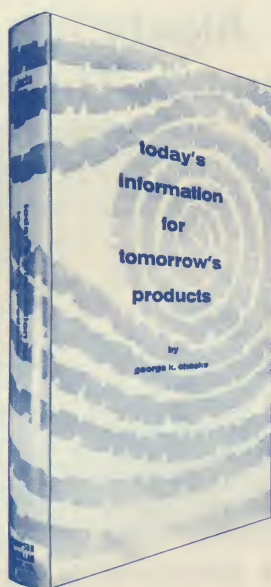
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An Operations Research Approach

by George K. Chacko,  
The MITRE Corp.

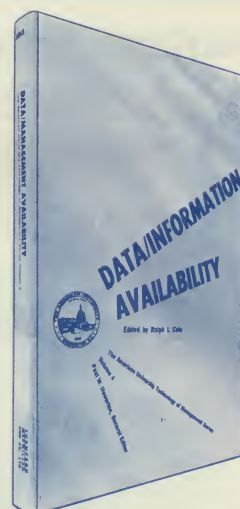
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Edited by Ralph I. Cole

The first effort expended in any research project, whether it is in a scientific discipline or a management field, is to find out what has been done up to now. The violently increasing volumes of information present problems in knowing just where to start to find information/data to help solve the information requirements of the project.

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The Science of Management and Data/Information—Relationship between Availability of Data and Significant Technological Advances; The Role of Technical Information in Decision-Making.

Specialized Data/Information Sources and Their Utility—Functions of Information/Data Analysis Centers; Patents: A Valuable Information Source for Research; NODC: An Experiment in Response to a Need for Scientific Integration; Availability and Creative Uses of Topographic Data; EPIC: Economic Progress through International Communications.

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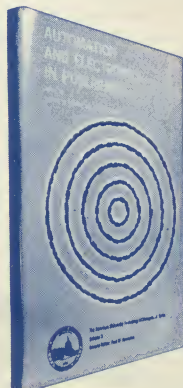
by Harry H. Fite

This book concerns itself with the current and ever-present problems facing local and state officials in handling urban planning and the role and potentialities of the computer in solving these problems. The author is Harry M. Fite, the Manager of State and Local Government Marketing for the UNIVAC Division of Sperry Rand. He is presenting the results of his experience and research, as given at meetings and conferences of local government officials, relating to the awakening need for computers in the public sector of human affairs. The articles were written and given to government top managers and designed to alert them to the fact that the growth of computer technology is of vital importance and usefulness to them. Some of the topics covered are: Automation and Management Education; Sounder Decisions in City Government; Municipal Process Control; Centralized Computer Traffic Control; Evolution of ADP in State Government; Automation of a State Revenue Department.

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### VOLUME III. AUTOMATION AND ELECTRONICS IN PUBLISHING

Edited by Lowell H. Hattery and George P. Bush

Automation and Electronics is based on the results of a symposium sponsored by the American University in order to explore the electronic printing automation problems and to present the various viewpoints, proposed solutions and outline for the future. It also contains a comprehensive bibliography of this new area of computer applications to the graphic arts. The editors, Doctors Lowell H. Hattery and George P. Bush are both experienced in the managerial technologies sciences. They have brought together in this volume the opinions and plans of experts from the newspapers, periodicals and book publishing fields. Publishing and printing have reached an evolutionary turning point, but as they become faster and less expensive, they become less dependent on the traditional skills and consequently require more sophisticated equipment and humans in the planning stages. The broad range of the book is illustrated by the following topics: Definition and Scope; Experience with Computers; Printing and Typesetting Technology; Management and Economics.

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## Computers and Pattern Recognition



from the U.S.S.R. —  
current work on  
pattern recognition  
and its relation to  
relevant research  
in the West...

by A. G. Arkadev and  
E. M. Braverman

(Translated from the Russian

by J. D. Cowan and W. Turski)

This book fills an important need for up-to-date information about Soviet developments in a rapidly-growing field. The underlying assumption throughout is that images form "compact" sets in a suitable representative "space" whose "coordinates" are the distinct "features" of the patterns presented to the machine. The image-compactness hypothesis is used as a point of reference for the analysis of different designs for the construction of pattern-recognizing machines. The algorithms underlying two well-known Western machines, the PERCEPTRON and the PAPA are also discussed in terms of this hypothesis. **Contents include: Dissecting Planes Algorithm; Algorithms Based on Potentials Method; Possible Ways of Further Improvement of Cognitive Machines.**

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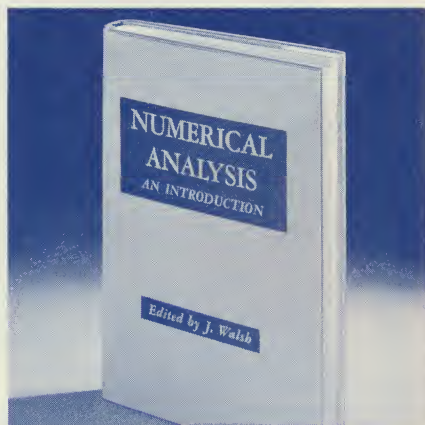
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## Numerical Analysis— An Introduction



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an introduction to  
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**Edited by J. Walsh, Dept. of Mathematics,  
the University, Manchester, England**

(Based on a Symposium organized by the  
Institute of Mathematics and Its Applications,  
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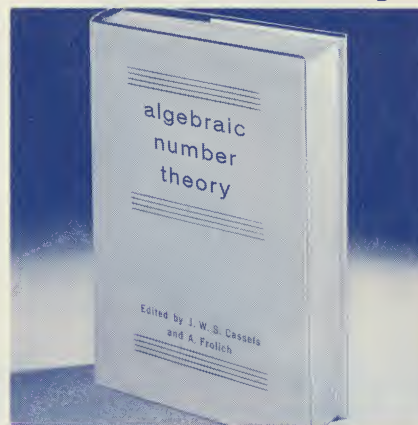
Individual chapters in this book are largely self-contained. The account of theory and methods is sufficiently detailed for readers who want to go further to study the more advanced works listed in the references. Subjects covered include linear algebra and the eigenvalue problem, ordinary and partial differential equations, methods of approximation and function minimization, and some applications of modern techniques to industrial problems. A concluding chapter considers the effect of the growth of numerical work on teaching. **Contents include: Applications of Computers to Pure Mathematics; Techniques of Operational Research; Computation in School and University Teaching.** There are two complete indexes, one classified by subject, the other by author.

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## Algebraic Number Theory



**for the non-specialist  
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a grounding in  
contemporary  
basic theory**

**Edited by J. W. S. Cassels and A. Frolich**

(Proceedings of an Instructional Conference  
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a NATO Advanced Study Institute — with the  
support of the International Mathematical Union)

The opening chapters in this work give a broad introduction to algebraic number theory; followed by the elementary and utilitarian tools needed for class field theory. The section on class field theory should dispel forever the aura of mystery which has previously surrounded the subject. The emphasis throughout is on intelligibility; the reader who has mastered what is done here can approach the rest of the literature with confidence. The concluding chapter is Tate's thesis (Princeton, 1950), which has been seminal for later developments but was never published. **Contents include: Cohomology of Groups; Zeta-functions and L-functions; Semi-simple Algebraic Groups; Applications of Computers to Class Field Theory; Fourier Analysis in Number Fields.**

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